

BULL CREEK STREAMBANK STABILIZATION PROJECT

PROJECT LOCATION: Beach Park, IL

WATERSHED: Lake Michigan

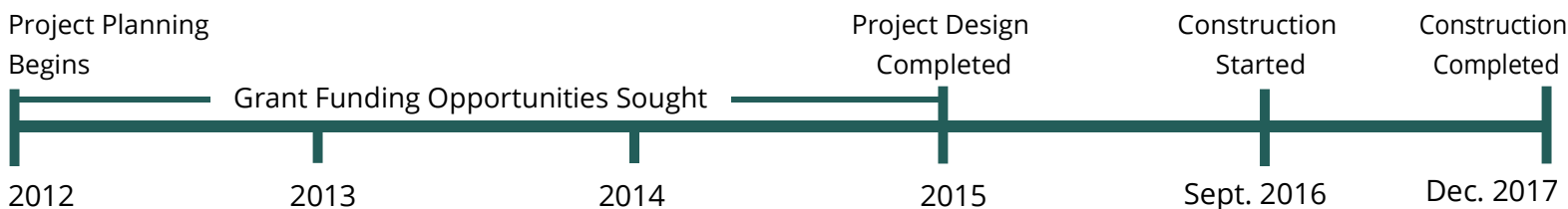
SUBWATERSHED: Dead River



PROJECT PURPOSE:

The Bull Creek project is a ravine system downstream of three tributaries within the Dead River Watershed. It flows through Beach Park, into Illinois Beach State Park, and enters Lake Michigan. The project included restoring and stabilizing 1,475 feet of stream corridor areas, implementing best management practices such as rock toe and riffles, and installing more than 6,000 native plant plugs. With heavy rain, this creek system experiences significant increases in water volume which leads to damage from erosion and ultimately large amounts of sediment and nutrient deposits into Illinois Beach State Park and Lake Michigan. The project goal was to reduce nearshore and non-point source pollution, and to improve water quality in Lake Michigan by reducing streambank erosion.

PROJECT TIMELINE:



FUNDING INFORMATION:

- USEPA Great Lakes Restoration Initiative (GLRI): \$446,603
- National Fish and Wildlife Foundation (NFWF): \$57,000
- Illinois DNR Coastal Management Program (CMP): \$25,000
- Lake County SMC: \$39,545
 - » Watershed Management Board (WMB) Grant: \$25,000

PROJECT PARTNERS:



STORMWATER MANAGEMENT COMMISSION



Thank you to the property owners and Bull Creek Stakeholders Association for their participation and support of this project.

WATERSHED FACTS:

The ravine systems in Lake County are an important natural drainage system into Lake Michigan and offer unique types of habitats and plant communities. The watershed tributary to the Bull Creek ravine is approximately 6.25 square miles and runoff from precipitation events is amplified in quantity and velocity in the watershed.

ENVIRONMENTAL BENEFITS*

- Nitrogen Reduction: 213 lb/year
- Biochemical Oxygen Demand Reduction: 426.1 lb/year
- Phosphorus Reduction: 82 lb/year
- Sediment Reduction: 133 ton/year

**Based on Spreadsheet Tool for Estimating Pollutant Loads (STEPL) modeling*

